

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Currently Amended) An exhaust smoke processing system comprising an air preheater for heating combustion air by exhaust smoke discharged from a boiler, a heat recoverer for heating heat medium by exhaust smoke discharged from the air preheater, a dust collector for collecting soot and dust in exhaust smoke discharged from the heat recoverer, a wet-type exhaust smoke processing apparatus for wet-type processing exhaust smoke discharged from the dust collector, a re heater for heating exhaust smoke discharged from the wet-type exhaust smoke processing apparatus by the heat medium, and a heat medium circulation pipe passage for circulating the heat medium between the re heater and the heat recoverer, ~~wherein the heat medium circulation pipe passage is provided with temperature control means and a measuring means which measures a heavy metal mercury concentration in exhaust smoke discharged from any one or more of the dust collector, the wet-type exhaust smoke processing apparatus and the re heater, and the heat medium which adjust the circulation pipe passage being provided with temperature control means which adjust the temperature of exhaust smoke at an outlet of the heat recoverer such that the heavy metal mercury concentration falls within a predetermined range.~~

2. (Original) The exhaust smoke processing system according to claim 1, wherein the temperature control means is any one of or more of means for adjusting a heat medium circulation flow rate of the heat medium circulating between the re heater and the heat recoverer, means for cooling the heat medium, means for heating the heat medium, and means which disposes a bypass pipe for connecting an inlet and an outlet of a passage of the heat medium flowing into the heat recoverer and which adjusts a flow rate of the heat medium in the bypass pipe.

3. (Currently Amended) An exhaust smoke processing system comprising an air preheater for heating combustion air by exhaust smoke discharged from a boiler, a dust collector for collecting soot and dust in exhaust smoke discharged from the air preheater, and a wet-type exhaust smoke processing apparatus for wet-type processing exhaust smoke discharged from the dust collector, wherein the system further comprises control a measuring means which measures a heavy-metal mercury concentration in exhaust smoke discharged from the wet-type exhaust smoke processing apparatus, and which adjusts controls means for adjusting any one or more of pH of liquid absorbent of the wet-type exhaust smoke processing apparatus, a flow rate of oxidizing-air, and a flow rate of waste water, such that the heavy-metal measured mercury concentration falls within a predetermined range.

4. (Currently Amended) An exhaust smoke processing system comprising a air preheater for heating combustion air by exhaust smoke discharged from a boiler, a heat recoverer for heating a heat medium by exhaust smoke discharged from the air preheater, a dust collector for collecting soot and dust in exhaust smoke discharged from the heat recoverer, a wet-type exhaust smoke processing apparatus for wet-type processing exhaust smoke discharged from the dust collector, a re heater for heating exhaust smoke discharged from the wet-type exhaust smoke processing apparatus by the heat medium, and a heat medium circulation pipe passage for circulating the heat medium between the re heater and the heat recoverer, wherein the system further comprises control a measuring means which measures a heavy-metal mercury concentration in exhaust smoke discharged from the dust collector, and a control means which adjusts the temperature of exhaust smoke at an outlet of the heat recoverer such that the measured heavy metal concentration falls within a predetermined range, and which also measures the heavy-metal mercury concentration in exhaust smoke discharged from the wet-type exhaust smoke processing apparatus, and a control means which adjusts any one or more of pH of liquid absorbent of the wet-type exhaust

smoke processing apparatus, a flow rate of oxidizing-air, and a flow rate of waste water, such that the measured heavy metal concentration falls within a predetermined range.

5. (Currently Amended) The exhaust smoke processing system of claim 1, wherein the temperature control means which measures a mercury concentration includes a measuring apparatus that measures the heavy metal concentration in exhaust smoke at an inlet of a smokestack.